Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Speed and Velocity Wrap-up Questions A SHOW ALL WORK!!**

1. A kayak races 100 m in 50 s. What is its average speed?

2. At the speed of 2.5 m/s, how many seconds will it take the kayak to run a 4500 m course?

3. When the kayak races downstream, its speed is clocked at 3 m/s. How far does the kayak travel in 35 s?

4. How far does the kayak, traveling at 3m/s travel in one hour ( change to seconds first)?

5. A family backpacking in Yosemite National Park took 5 hours to climb a trail 7.5 km long. What was their average speed?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Speed and Velocity Wrap-up Questions B SHOW ALL WORK!!**

1. A family driving through the park could only drive at 60 km/h, how long did it take them to drive the 270 km home?

2.You took a car trip with your family to visit relatives who live 720 km away. The trip took 9 hours, how fast did you travel?

3.If you travel 50 km east in 2 hours, what is your velocity?

4.The traffic on the highway is moving at 90 km/h. At this rate, how long will it take you to travel 360 km?

5.If a runner maintains a speed of 5 m/s, how far can he run in 10 minutes (change to seconds first)?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Speed and Velocity Wrap-up Questions C SHOW ALL WORK!!**

1. What is the average speed of a cheetah that sprints 100 m in 4 s? How about if it sprints 50 m in 2 s?
2. If a car moves with an average speed of 60 km/hr for an hour, it will travel a distance of 60 km. How far will it travel if it continues this average rate for 4 hrs?
3. A runner makes one lap around a 200 m track in a time of 25.0 s. What was the runner's average speed?
4. A motorist travels 406 km during a 7.0 hr period. What was the average speed?
5. A bullet is shot from a rifle with a speed of 720 m/s. What time is required for the bullet to strike a target 3240 m away?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Speed and Velocity Wrap-up Questions D SHOW ALL WORK!!**

1. An auto travels at a rate of 25 km/hr for 4 minutes, then at 50 km/hr for 8 minutes, and finally at 20 km/hr for 2 minutes. Find the total distance covered in km and the average speed for the complete trip in m/s

2.The peregrine falcon is the world's fastest known bird and has been clocked diving downward toward its prey at constant vertical velocity of 97.2 m/s. If the falcon dives straight down from a height of 100. m, how much time does this give a rabbit below to consider his next move as the falcon begins his descent?

3. If Steve throws the football 50 meters in 3 seconds, what is the average speed (velocity) of the football?

4.If it takes Ashley 3 seconds to run from the batters box to first base at an average speed (velocity) of 6.5 meters per second, what is the distance she covers in that time?

5.Bart ran 5000 meters from the cops and an average speed (velocity) of 6 meters/second before he got caught. How long did he run?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Speed and Velocity Wrap-up Questions E SHOW ALL WORK!!**

1. If Justin races his Chevy S-10 down Highway 37 for 2560 meters in 60 seconds, what is his average speed (velocity)?
2. Mike rides his motorcycle at an average speed (velocity) of 20 meters/second for 500 seconds, how far did he ride?
3. Sarah backstrokes at an average speed of 8 meters per second, how long will it take her to complete the race of 200 meters length?
4. Lauren’s SUV was detected exceeding the posted speed limit of 60 kilometers per hour, how many kilometers per hour would she have been traveling over the limit if she had covered the a distance of 10 kilometers in 5 minutes?
5. Tina’s calculations of the tarantula found that the spider was able to cover 20 centimeters in 5 seconds, what was the average speed of the spider?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Speed and Velocity Wrap-up Questions F SHOW ALL WORK!!**

1. What is the speed of a car that travels 150 km in 3.00 hrs?
2. A vehicle travels 2345 m in 315 s toward the evening sun. What is its velocity?
3. What is the speed of a bus that travels 250.0 km in 2.00 hours?
4. What distance will a car traveling 65 km/hr travel in 3.0 hrs?
5. What distance will be traveled if you are going 120km/hr for 30. min?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Speed and Velocity Wrap-up Questions G SHOW ALL WORK!!**

1. How long will it take to go150 km traveling at 50 km/hr?
2. How long will it take to travel 200 km traveling 100 m/s?
3. If a rocket travels 5600. km in 3.00 hours, what is its speed
4. A kayak races 100 m in 50 s. What is its average speed?
5. At the speed of 2.5 m/s, how many seconds will it take the kayak to run a 4500 m course?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Speed and Velocity Wrap-up Questions H SHOW ALL WORK!!**

1. When the kayak races downstream, its speed is clocked at 3 m/s. How far does the kayak travel in 35 s?
2. How far does the kayak, traveling at 3m/s travel in one hour ( change to seconds first)?
3. A family backpacking in Yosemite National Park took 5 hours to climb a trail 7.5 km long. What was their average speed?
4. A family driving through the park could only drive at 60 km/h, how long did it take them to drive the 270 km home?
5. You took a car trip with your family to visit relatives who live 720 km away. The trip took 9 hours, how fast did you travel?